DEUTZ AG

EXECUTIVE ORDER U-R-013-0300 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9DZXL02.3048	2.290	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT A	
Direct	Diesel Injection, Turboch Limiter, Exhaust Gas Re	arger, Smoke Puff ecirculation	Crane, Loaders, Tractor, Dozer, Other Industrial Eq	Pump, Compressor, uipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			E	XHAUST (g/kw-l	1Γ)		O	PACITY (%	a)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.0	1.2	0.24	6	3	11

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to 13 CCR 13 CCR 2423(b)(1)(A) -Table 1b – Endnote 3.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this day of January 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Deutz Ald Nonroad CI

Engine Model Summary Template

Attachment

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U-R-013-0300

Engine Family	Engine Family 1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HF (for diesel only)	el Kate: 5.Fuel Kate: 6. @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM seel only) (SEA Gross)	5.Torque @ RPM (SEA Gross)	7.Fuel Kate: mm/stroke@pea k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930	
9DZXL02.3048	C3UI45	TD2009L04	60.3	43.2	26.8	180@1800	44.8	17.9	DDI, TC, EGR, 5PL	72
9DZXL02,3048	C3UI44,6	TD2009L04	59.8	43.8	25.3	180@1800	44.8	17.9	DDI, TC, EGR	contract of contract.
9DZXL02.3048	C3UI43,5	TD2009L04	58.3	44.0	24.4	180@1800	44.8	17.9	DDI, TC, EGR	
9DZXL02.3048	C3UI42,8	TD2009L04	57.3	44.4	23.6	180@1800	44.8	17.9	DDI, TC, EGR	
9DZXL02.3048	C3UI50	TD2009L04 50 Km 67	, ξw 67	47.3	29.4	200@1800	49.2	19.6	DDI, TC, EGR	-
9DZXL.02.3048	C3UI48,4	TD2009L04	64,9	47.3	27.3	200@1800	49.2	19.6	DDI, TC, EGR	***************************************
9DZXL02.3048	C3UI47,2	TD2009L04	63,2	47.2	26.2	200@1800	49.2	19.6	DDI, TC, EGR	A approximation of the control of th
9DZXL02.3048	C3UI46,3	TD2009L04	62	47.2	25.1	200@1800	49.2	19.6	DDI, TC, EGR	40.000
9DZXL02.3048	C3UI43,9	TD2009L04	58,8	47.3	23.1	200@1800	49.2	19.6	DDI, TC, EGR	data initiation of the state of
9DZXL02.3048	C3UI42	TD2009L04 42/4 56,3	r/cm 56,3	45.5	22.2	200@1800	49.2	19.6	DDI, TC, EGR	